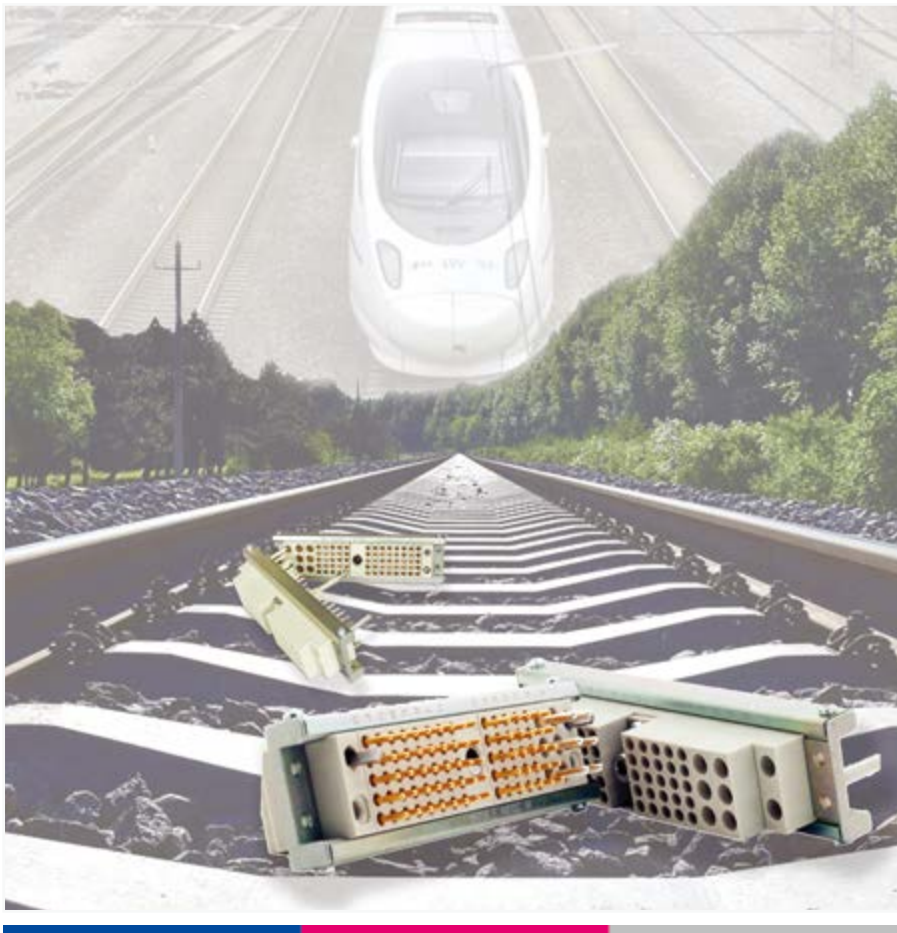


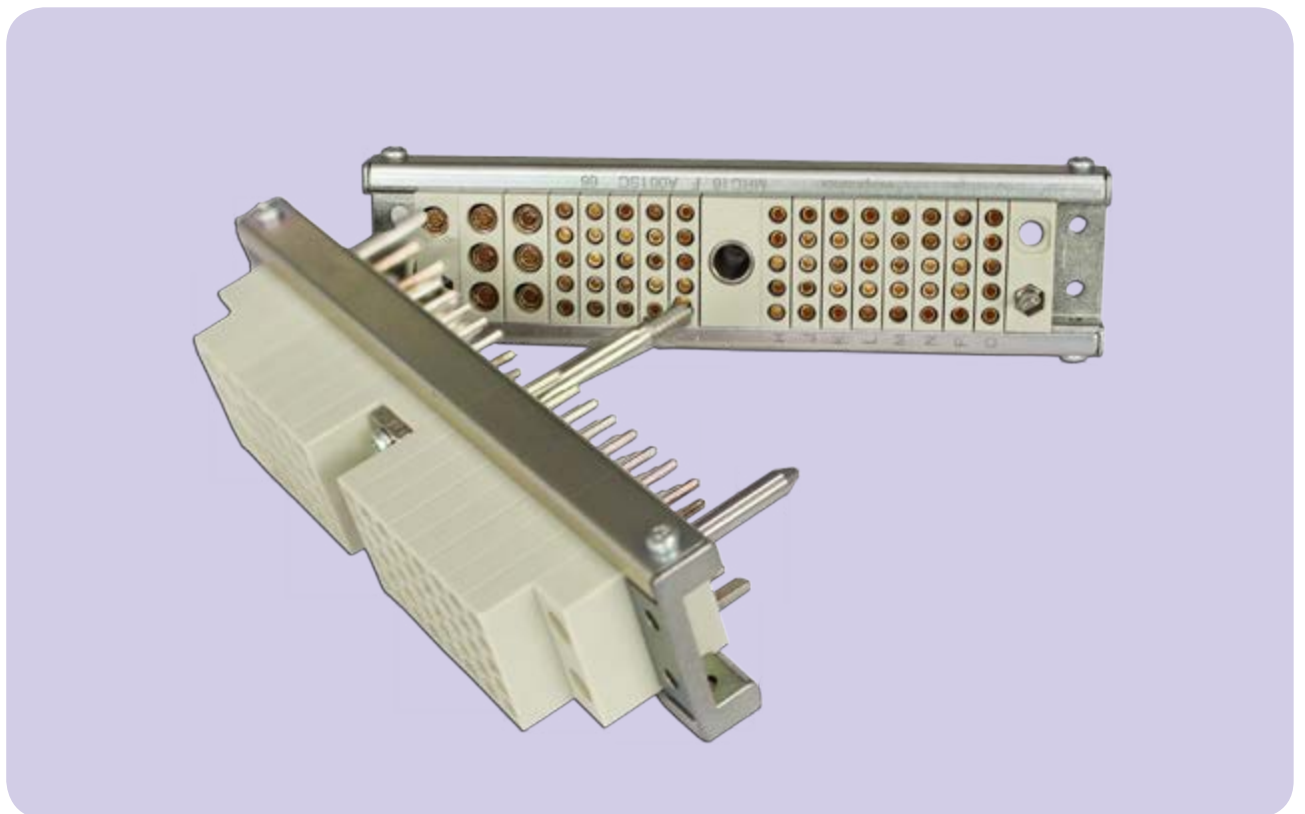
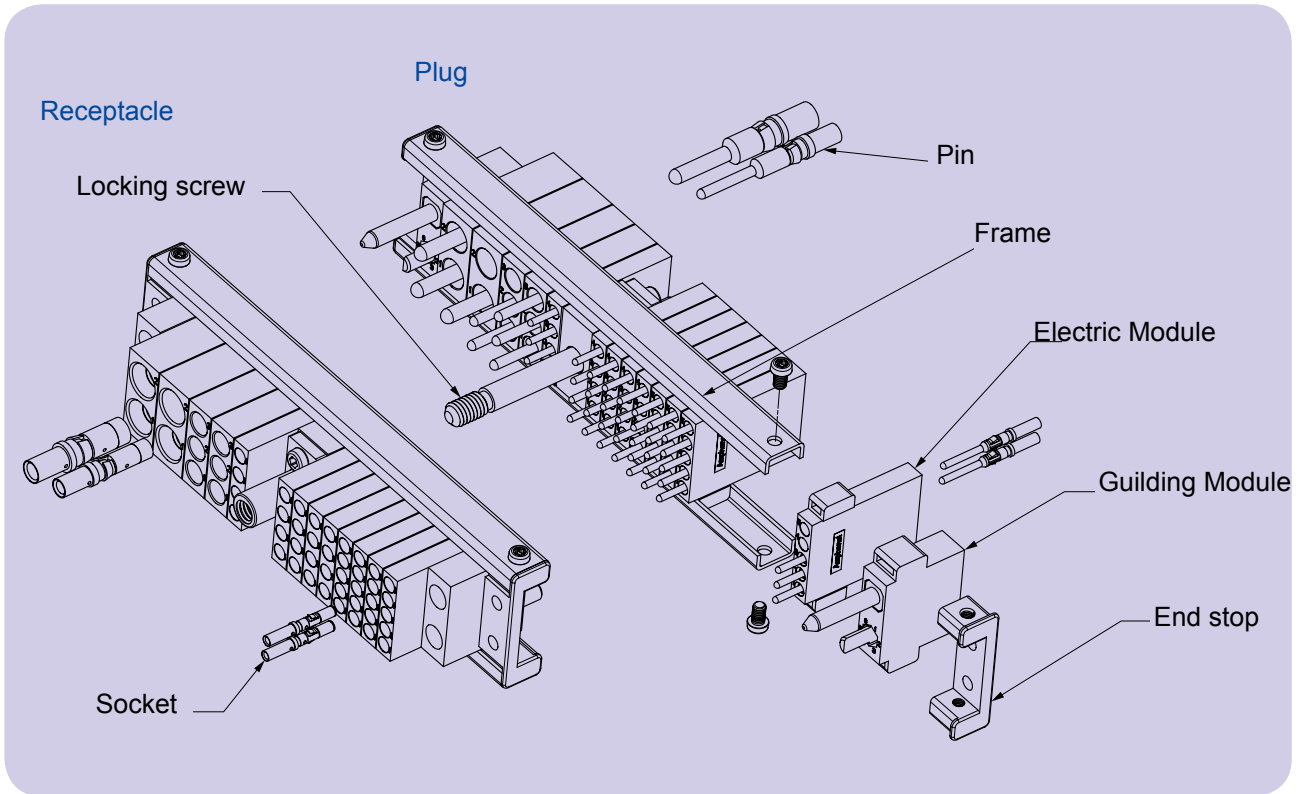


MRC

Modular Rectangular Connector



CONNECTOR STRUCTURE



MRC

ELECTRICAL				
Insert	5 Pin	4 Pin	3 Pin	2 Pin
Contact	Φ1.60 (#16)	Φ1.60 (#16)	Φ2.40 (#12)	Φ3.60 (#8)
Creepage distacne	4.1mm	5.3mm	7.0mm	7.5mm
Clearance distance	2.9mm	3.9mm	4.9mm	7.4mm
Rated current	13A	13A	23A	70A
Rated voltage	250V AC	380V AC	500V AC	500V AC
Contact resistance	2.5mΩ	2.5mΩ	1.3mΩ	0.9mΩ
Insulation resistance	5000Ω(DC500V)			



MRC connector is modular rectangular connector, consists of rugged Alu. frames, plastic modules with varioud insert arrangements, and crimping contacts for high current (power) and low current (signal)

KEY FEATURES

Light weight

Many insert arrangement available

High current power and signal contact available

Self-locking system, specially design for applicaiton with vibration in trains

Resist to shock and vibration

With guiding pin

Modular insert, freely assemble upon request

MECHANICAL	
Durability	≥ 500 mating cycles
Vibration & Socks	IEC 61373-1999(GB/T 21563-2008) test type 2
Contact retention	#16: ≥ 70N #12: ≥ 90N #8: ≥ 110N
ENVIRONMENTAL	
Temperature range	-40°C to 125°C
Flammability	UL94-V0
Salt spray	96h
MATERIAL	
Frame	Steel (Zinc plated)
End stop	Zinc alloy (Zinc plated)
Insert	Thermo-plastic
Contact	Brass, silver or gold plated

HOW TO ORDER

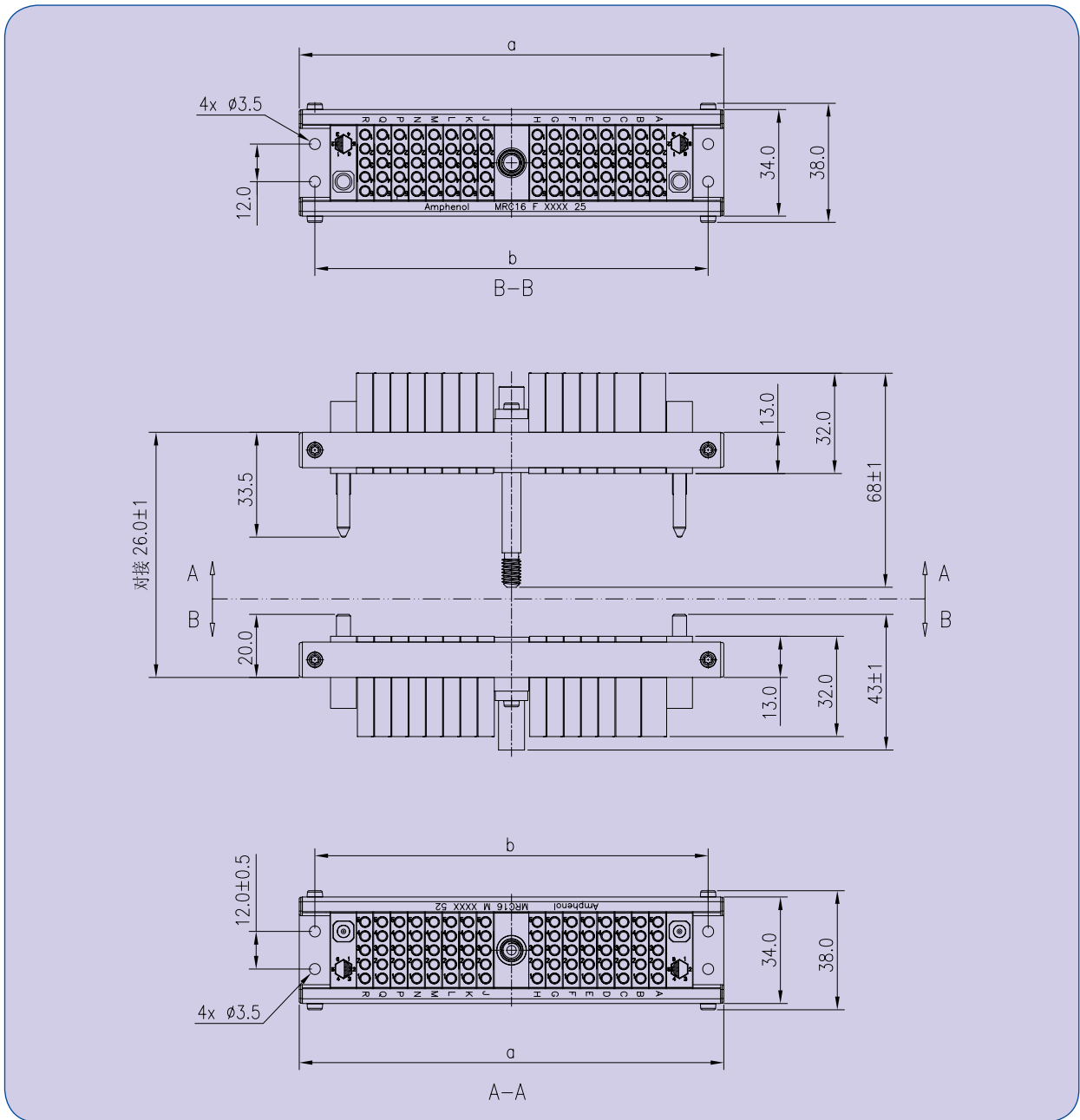
CONNECTOR

	MRC	14	M	20	XXXX	S	C	A	25
Product Series									
Mouldles number: 16、14、08、04.....									
Connector type: M: Plug F: Receptacle									
Shell size: 20, 24, 28, 32, 36, 48									
Insert arrangement, 4 digital number (please contact us)									
Contact type: P: Pin S: Socket									
Contact connection type: C: Crimp S: Solder Omit: No contacts									
Contact plating: Omit: Silver G: Gold									
Alternative position: Standard position 25, others please contact us									

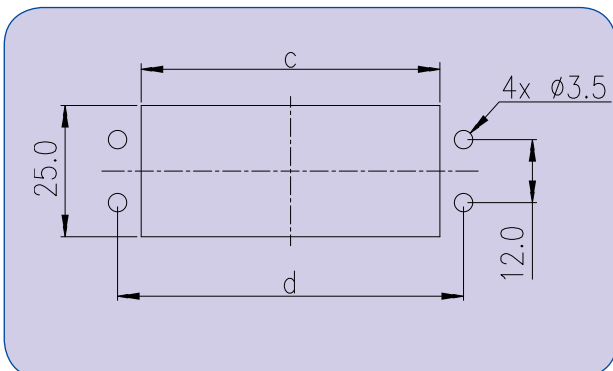
CONTACTS

	MRC	16	P	C	XXX	XX
Product Series						
Contact size: 16,12,08						
Contact type: P: Pin S: Socket						
Contact connection type: C: Crimp						
Wire size (Please refer to page 8)						
Contact plating: AG: Silver AU: Gold						

PLUG AND RECEPTACLE DIMENSION



PANEL MOUNTED DIMENSIONS



Modules	a±0.5mm	b±0.5mm	c mm	d mm
16 Module	135.5	125.5	116.5	125.5
14 Module	124.5	114.5	105.5	114.5
08 Module	91.5	81.5	72.5	81.5
04 Module	69.5	59.5	50.5	59.5

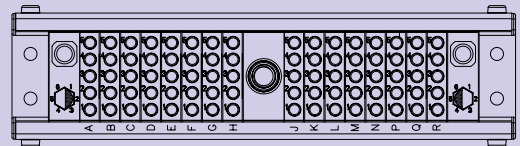
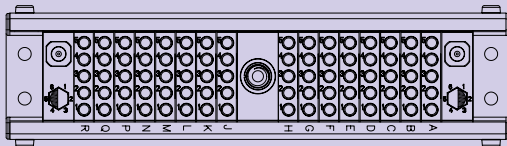
INSERT ARRANGEMENT

INSERT ARRANGEMENT EXAMPLE

16 Module

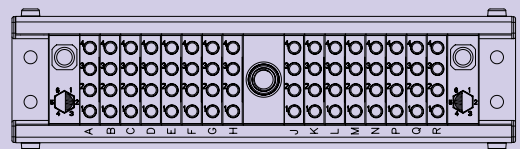
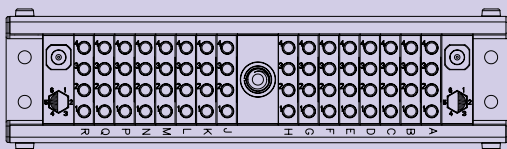
Insert arrangement : 0001, Key number 2-5

80x #16 contact size



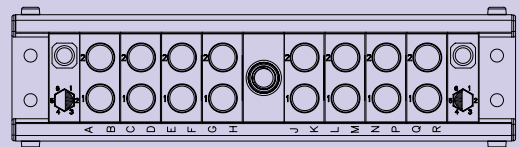
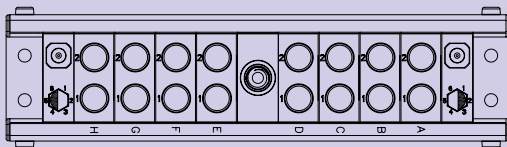
Insert arrangement : 0002, Key number 2-5

64x #16 contact size

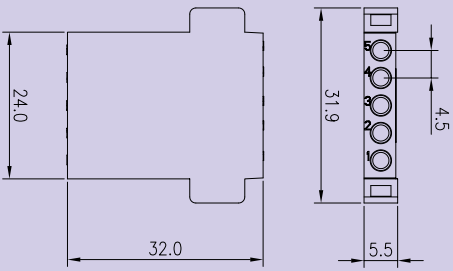

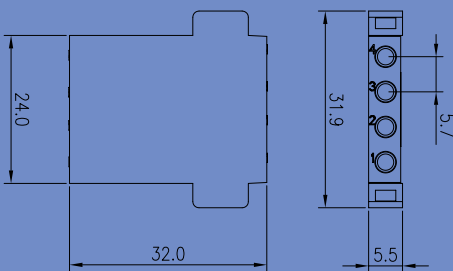

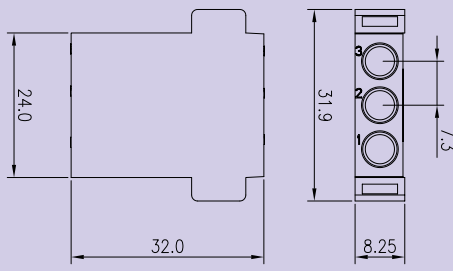

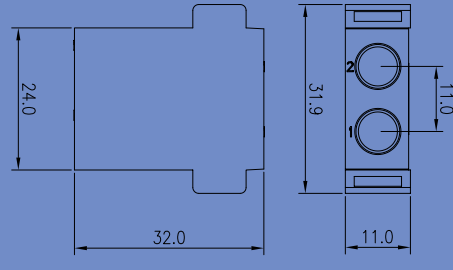
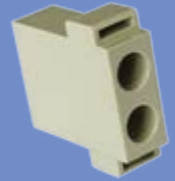


Insert arrangement : 0003, Key number 2-5

16x #8 contact size



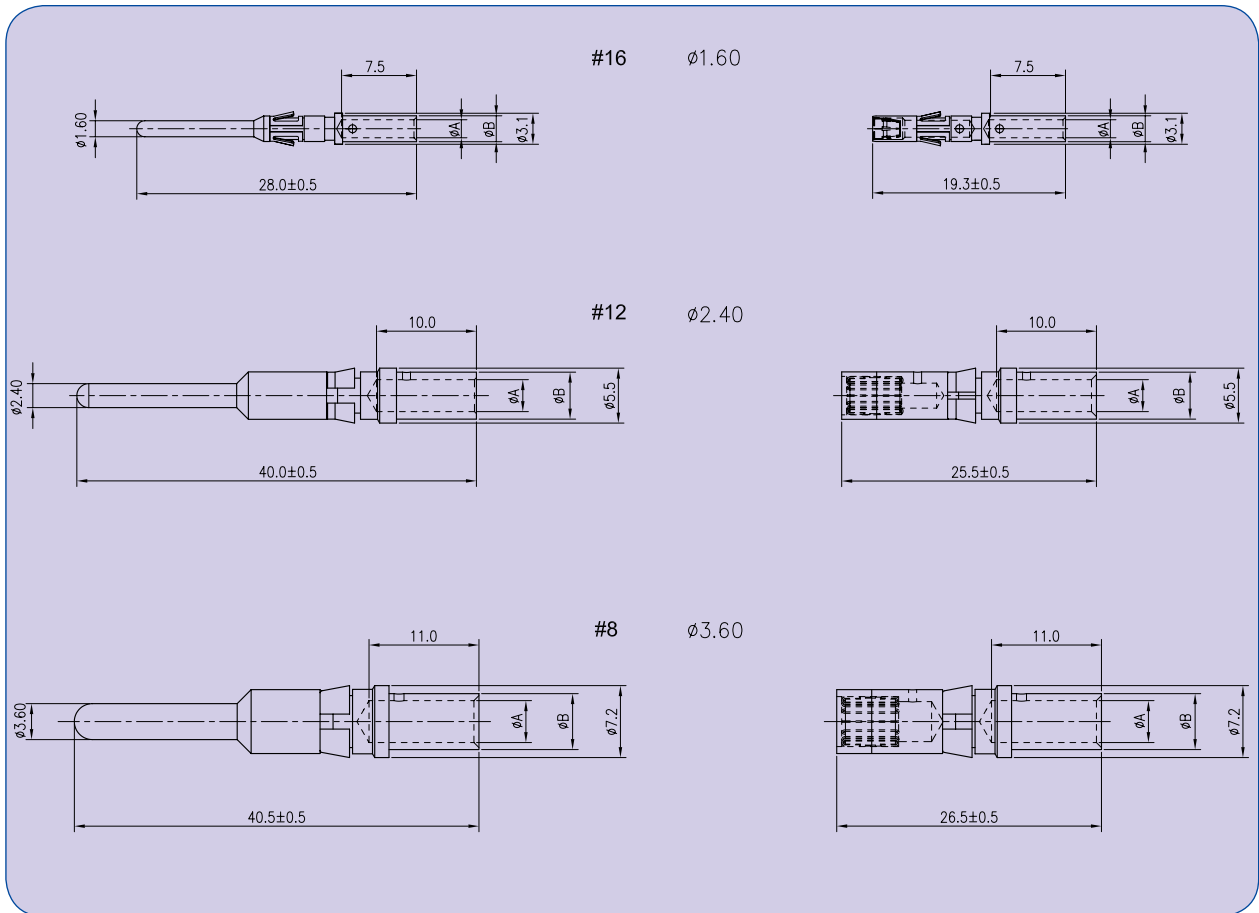
INSERT MODULES

Module	Dimensions	Product picture
5x #16 contact size		
4x #16 contact size		
3x #12 contact size		
2x #8 contact size		

CONTACTS




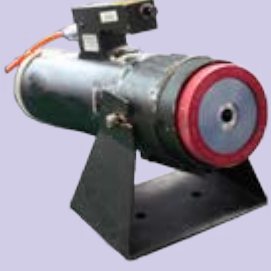
Pin

Socket



Contact size	P/N		Plating	Wire size	Tools	
	Pin	Socket			Crimping	Extraction
#16	MRC 16 PC 002 AG	MRC 16 SC 002 AG	Silver	0.3 to 0.6 mm ²	M22520/1-01	AS-GTC-R-16S
	MRC 16 PC 002 AU	MRC 16 SC 002 AU	Gold			
	MRC 16 PC 001 AG	MRC 16 SC 001 AG	Silver	0.5 to 1.5 mm ²	M22520/1-01	AS-GTC-R-16S
	MRC 16 PC 001 AU	MRC 16 SC 001 AU	Gold			
#12	MRC 12 PC 001 AG	MRC 12 SC 001 AG	Silver	2.5 to 4.0 mm ²	M317	AS-GTC-R-12
#8	MRC 08 PC 001 AG	MRC 08 SC 001 AG	Silver	8.0 to 10 mm ²	APHWA23KIT	AS-GTC-R-8
	MRC 08 PC 002 AG	MRC 08 SC 002 AG	Silver	6.0 to 8.0 mm ²		

TOOLS

#16 Extraction tool AS-GTC-R-16S	#16 Crimping tool M22520/1-01
 A long, thin metal rod with a black handle and a small black cap at one end.	 A blue-handled crimping tool with a white die and a small white cap.
#12 Extraction tool AS-GTC-R-12	#12 Crimping tool M317
 A long, thin metal rod with a black handle and a small black cap at one end.	 A black-handled crimping tool with a yellow label on the handle.
#8 Extraction tool AS-GTC-R-8	#8 Crimping tool APHWA23KIT
 A long, thin metal rod with a black handle and a small black cap at one end.	 A motorized crimping tool with a red and silver body and a black base.

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